

MANUAL

◀ Stereo module

6911 37 89

RF-IF module

5829 02 58

CT 2570 UK

Ident-Nr. 5436 03 00

CT 2870 UK Ident-Nr. 5436 03 10

Replacement parts list

When ordering spares please quote item and order number. When ordering (sub-)assemblies (modules), give the assembly number in addition!

Safety components in accordance with existing regulations. These components must only be replaced by original component parts.

CT 2570 UK			CT 2870 UK		
Cabinet		6112 86 36	Cabinet		6112 28
ront plate		6417 26 06	Front plate		6417 29
oudspeaker blind		6411 07 20	Loudspeaker blind		6411 07
perating unit lid		8687 02 81	Operating unit lid		8687 02
folder for operating unit lid		8681 10 06	Holder for operating unit lid		8681 10
Brille for indicator		8251 44 19	Grille for indicator		8251 44
Vindow for indicator grille		6466 37 36	Window for indicator grille		6466 37
'ad		8642 01 48	Pad		8642 01
Rear cover		6214 10 68	Rear cover, grey		6214 09
folder for rear cover		8624 47 10	Holder for rear cover		8624 47
Screw for picture tube		7864 02 21	Screw for picture tube		7864 02
Picture tube	A 59 ECF 00 X 01 SEL	△ 4362 25 55	Picture tube	A 66 ECF 00 X 01 SEL	△ 4362 28
arth for picture tube		6141 03 05	Earth for picture tube		6141 03
Spring device for earthing		7351 28 46	Spring device for earthing		7351 28
Degaussing coil		△ 4588 05 24	Holder for picture tube		8623 31
look for degaussing coil		8681 72 15	Degaussing coil		△ 4588 05
oudspeaker.	8 Q, 15 W	4311 07 15	Hook for degaussing coil		8681 72
folder for loudspeaker		7368 01 96	Loudspeaker	8 Ω, 10 W	4311 07
Chassis conduct, left		8625 11 63	Loudspeaker	4 Ω, 10 W	4311 09
Chassis conduct, right		8625 11 64	Holder for loudspeaker		7368 01
folder for STEREO-Modul		8625 48 09	Chassis conduct, left		8625 11
Plunger pin for RF module		8642 75 05	Chassis conduct, right		8625 11
Mains pushbutton		-6315 36 18	Mains pushbutton		6315 36
folder for decoder		8625 47 07	Holder for STEREO-Modul		8625 48
			Plunger pin for RF module		8642 75
			C 395/396	2,2 μF 100 V	3421 75
			Holder for decoder		8625 47
) }			
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Picture and sound IF-adjustment

Required measuring equipment:

Sweep generator with marker transmitter: Signal generator: Oscillograph: RF rectifier probe Bias voltage instrument:

30...42 MHz, max, output 200 mV 5.5 MHz, dispersion \pm 15 kHz, $f_{mod}=1$ kHz Sensitivity 10 mV/cm...1 V/cm

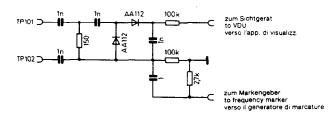
adjustable from 0...10 V

Preparations:

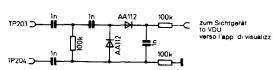
Bias voltage instrument to TZ 214. Check U V 12 V \pm 10% at TZ 23. The cores must be at the upper end of the coil.

No.	Stage to be adjusted	Connect. sweep gen., transm.	Connect. oscillor.	Adjustment procedure	Oscillograms Remarks	
1.1	UHF/IF filter	Test circuit 1. Sweep gen. via 15 pF to TP 2 (UHF tuner) approx. 300 mV TP 203/204 to earth	Oscillo, via probe to TP 101/102. Amplitude: 10 mV/cm. See Fig. 1	Adjust to max, amplitude and level roof with L 62 and L 64 (VC and SC must have the same height). Bandwidth can be narrowed with L 63.	33.4 38.9 MHz	
1.2	UHF/VHF/IF- filter	Test circuit 1. Sweep gen. via 10 nF to TP 6 (UHF tuner) approx. 20 mV TP 4 to earth.	Oscillo, via probe to TP 203/204. Amplitude: approx. 20 mV/cm. See Fig. 2	Adjust to max, amplitude and level roof with L 161 and L 162 (BT and FT must have the same height).	768 7 81 81	
2.	Reference circuit	Test circuit 2. Sweep gen. via interstage transformer (4:1) to TP 201/202 (approx. 20 mV)	Oscillo, to TZ 24, Amplitude 450 mV/cm.	Tune frequency marker 38.9 MHz to max. amplitude with L 206. (UK = 39.5 MHz)	Монну	
		Attenuation acc. to test circuit 3. TP 102 to earth via 2.2 nF.		Set frequency marker 38 MHz to 1,7 V _{SS} = 0 dB with bias		
Monitoring of IF frequency response	frequency	Test circuit 2. Sweep gen, via interstage transf. (4:1) to TP 203/204 (approx. 150 mV)	Oscillo, to T 24, Amplitude: 0,5 V/cm	voltage at TZ 214. Marker 38.9 MHz should lie between – 5 dB and – 7 dB, marker 34.5 MHz between – 3 dB and – 5 dB.	33,444z 38,944z 34,544z 0,547cm	
4.	DF	Test circuit 2. Sweep gen. via interstage transf. (4:1) to TP 203/204. (approx. 150 mV)	Oszillo, to TP 211. Amplitude 100 mV/cm. Bias voltage instr. 0 10 V on TP 213.	Set frequency marker 38,9 MHz (VC) to zero with L 245. (UK = 39,5 MHz)	200mv	
5.1	DF-AF	Signal generator 5,5 MHz (Hub ± 27 kHz, f _{mod} ≈ 1 kHz ≥ 140 mV _{am}) on TP211	Oscillo. to TZ 31	Adjust R 233 on 761 mV _{ss} .	ВТ	
5.2	DF-AF	Signal generator 5,74 MHz (Hub ± 27 kHz, f _{mod} ≈ 1 kHz ≥ 140 mV _{eff}) on TP212	Oszillo. to TZ 33	Tune L 226 (L 236) to AF max, and min. distortion factor.		
5.3	Some voltage level from sound channel 1 and channel 2	Signal generator 5,5 MHz on TP 211 and 5,74 MHz on TP 212	Oscillo. to TZ 31 and TZ 33	Tune sound channel 2 with R 225 (R 233) to have the same height wit sound channel 1 (appr. 1%).	Switch the respective terminals of TZ 31/TZ 33 to earth with 10 nF capacitors.	
6.0	Monitoring of video signal	With the aid of a standard	modulated TV transmitter.	the video output voltage should be 2 $V_{ss}\pm0.2V$.		

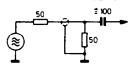
Abb. 1 Probe for RF tuning



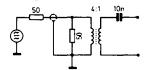
Probe for tuning of the IF coil



Test circuits 1

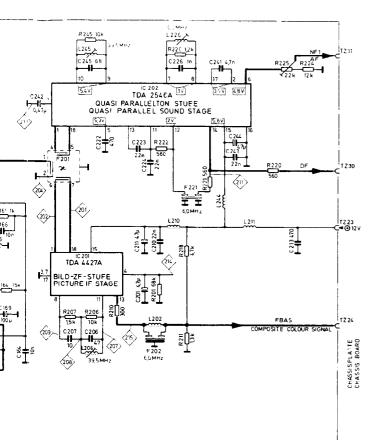


Test circuits 2



Test circuits 3

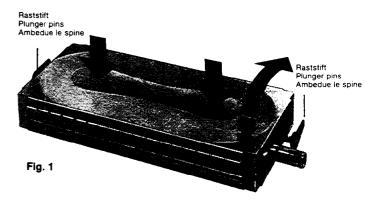


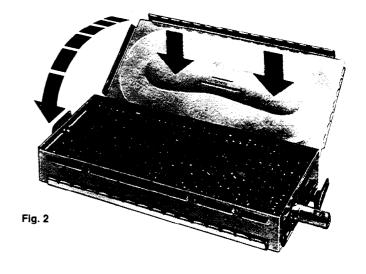


Instructions for dismantling:

Turn the two red plunger pins by 90° . Remove module from bracket (Fig. 1).

- Apply pressure to the plate channel simultaneously with both thumbs, until the cover seaming bends, then remove cover (Fig. 1).
- Before the cover can be put back on, the plate channel must first be pressed back into its proper position from the inside (Fig. 2).
- 3. Put cover back on.

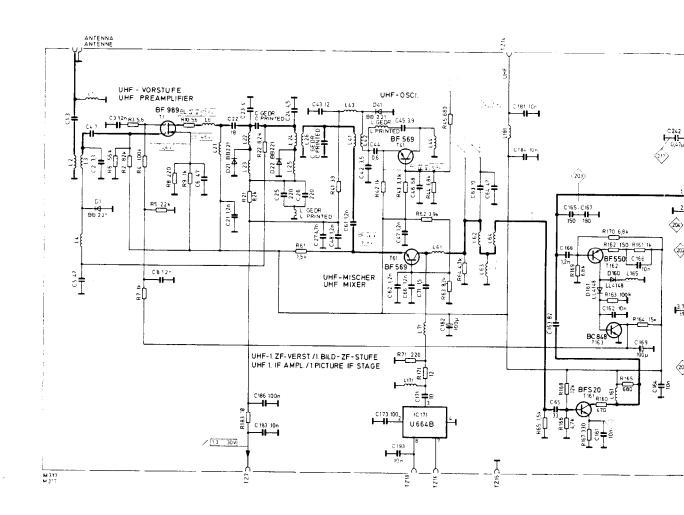


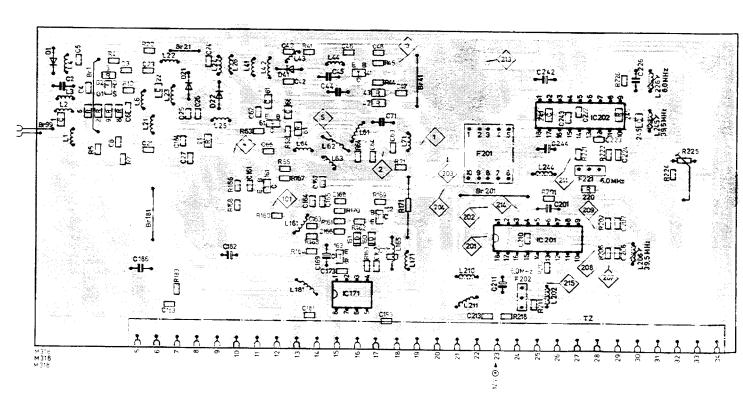


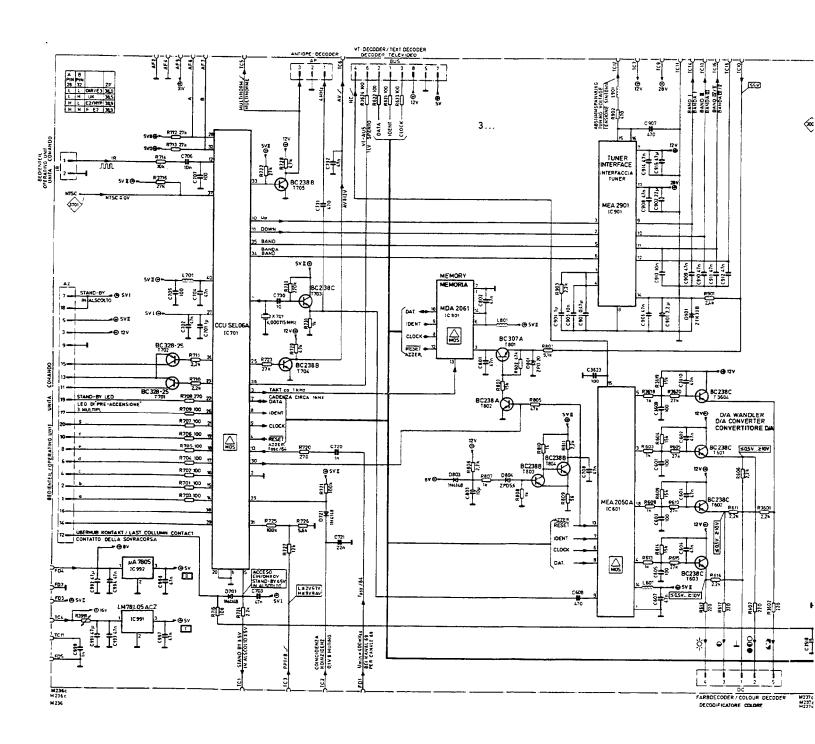
Gegenstand Item Pièce Ricambi			Bestell-Nr. Order no. N° de com. No. di rif.	Gegenstand Item Pièce Ricambi		Bestell-Nr. Order no. N de com. No. di rif.
HF-ZF Modul (F RF-IF module (Module HF-BF Modulo MF-BF		e)	5829 02 58	D 160, 161 L 202 L 205/245 L 206 L 207 L 210	LL 4148 Drossel / Choke / Bob de self / Bobina Filter / Filter / Filtre / Filtre 38,9 MHz Filter / Filtre / Filtre 38,9 MHz Drossel / Choke / Bob de self / Bobina Drossel / Choke / Bob de self / Bobina	3656 03 11 4557 16 29 4555 30 22 4555 30 23 4557 16 49 4557 16 25
IC 161 IC 171 IC 201 IC 202 T 1	TDA 5030 U 664 B TDA 4427 A TDA 2546 A BF 989 BF 9965–E 6327	MOS	3761 17 25 3775 05 73 3761 16 23 3761 13 58 3611 07 11 3611 07 13	L 210 L 211 L 226, 236 L 244 F 201 F 201 F 202	Spule / Coli / Bobine / Bobine / Bobine / Filter / Filter / Filter / Filter / Filter / Filter / Bobine / Drossel / Choke / Bobine de self / Bobine / OFW G 3205 OFW J 3203 Filter / Filter / Filtre / Filtre	4557 16 25 4544 07 46 4555 30 24 4557 16 25 4555 85 52 4555 85 53 4555 84 15
T 41 T 61 T 162 T 163 D 1, 21, 22, 41	BF 569-L BF 569-E 6327 BF 550 BC 848 AF BB 221-SB		3612 07 11 3612 07 13 3612 07 25 3614 53 21 3651 05 25	Reglette à douilles. Géhausedeckel / Ca	olig / Female plug. 34fold 34fors / Spinottiera. 34poli abinet can top er / Coperchio schermatura	4145 16 75 8316 45 01
<i>3</i> 2 22	55 221-35		30370325	Antennenbuchse / A	·	4143 90 45

RF-IF module

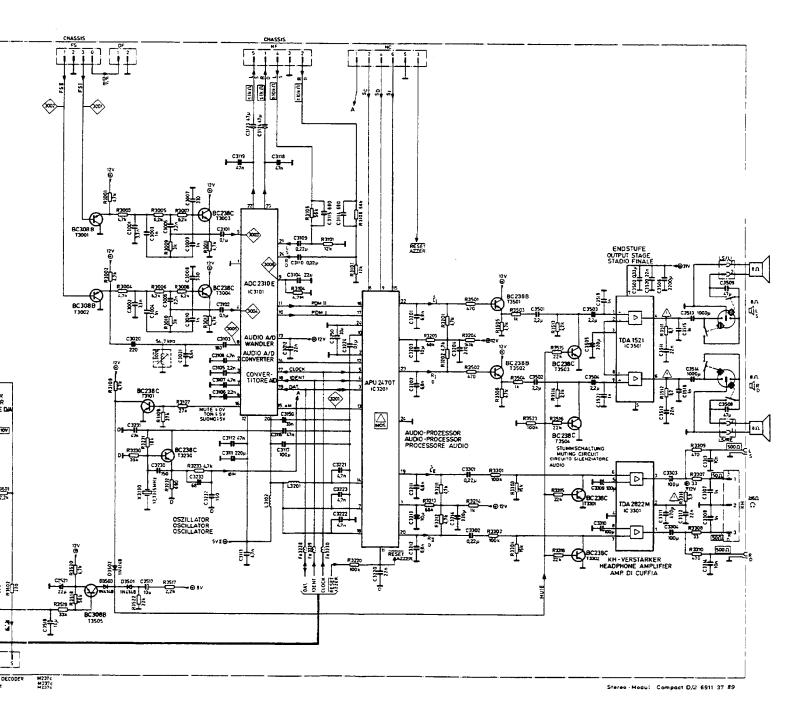
5829 02 58

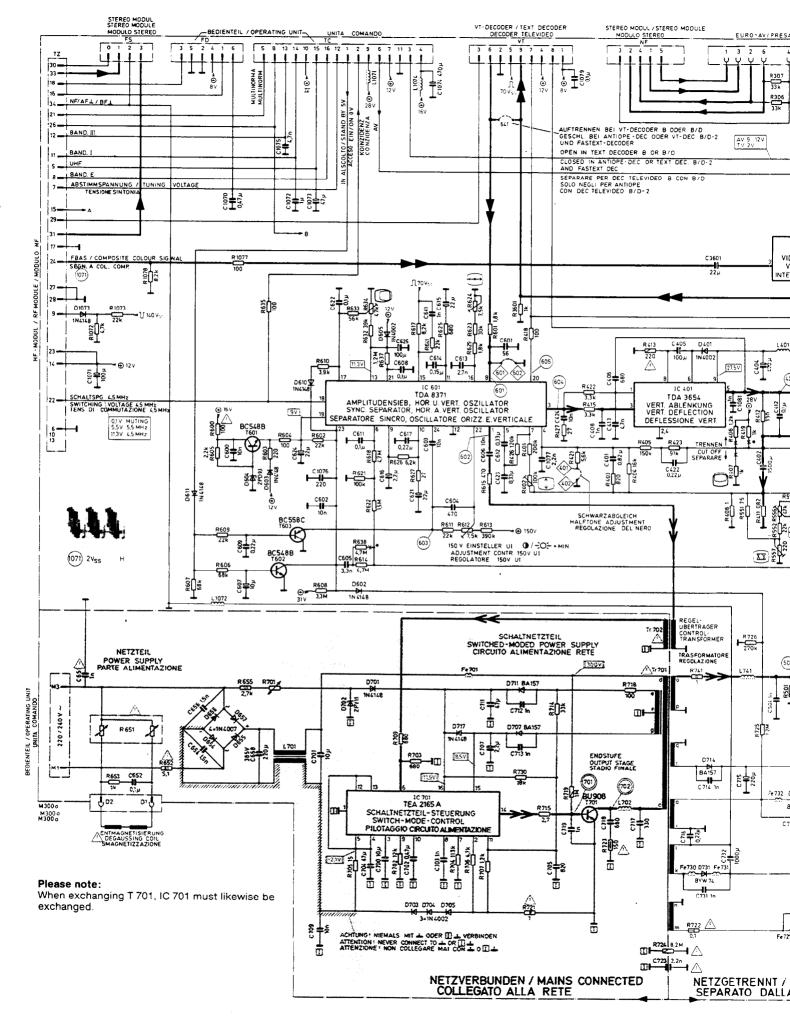


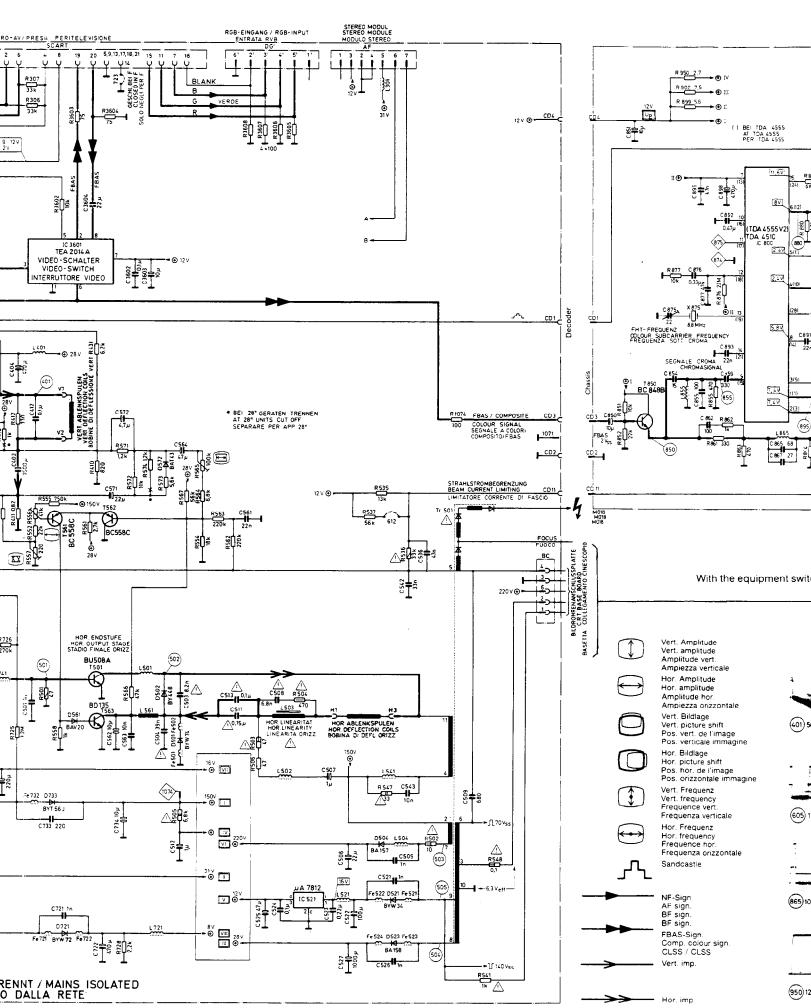




Pilot signal alignment Stereo signal (mono activ). Scope to TP 3005. L 3020 for max. adjustment (54,7 kHz).



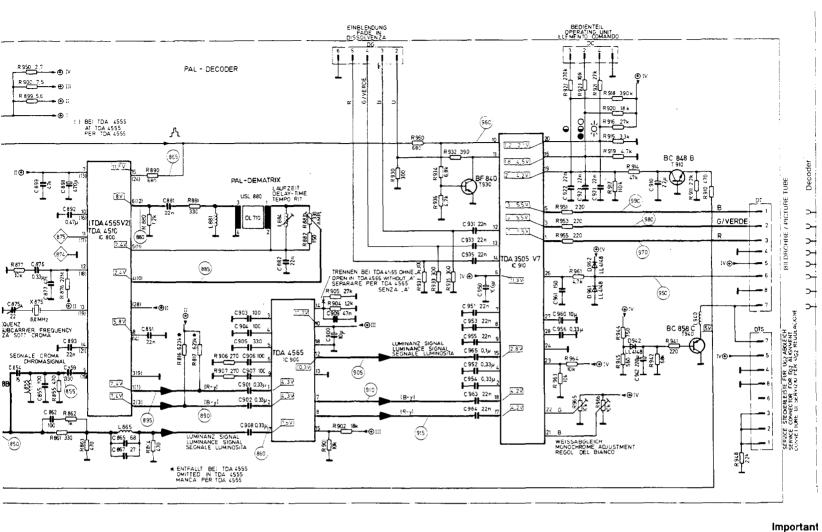




Compact - Chassis D/2 110° - FST

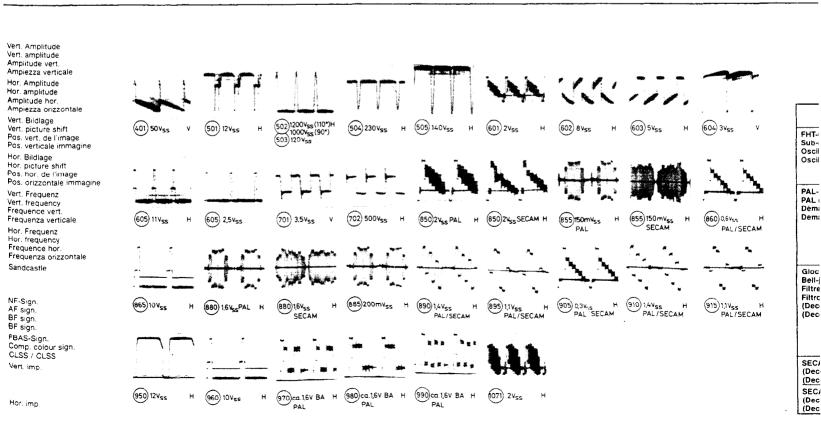
5861 75 22

6911 30 28

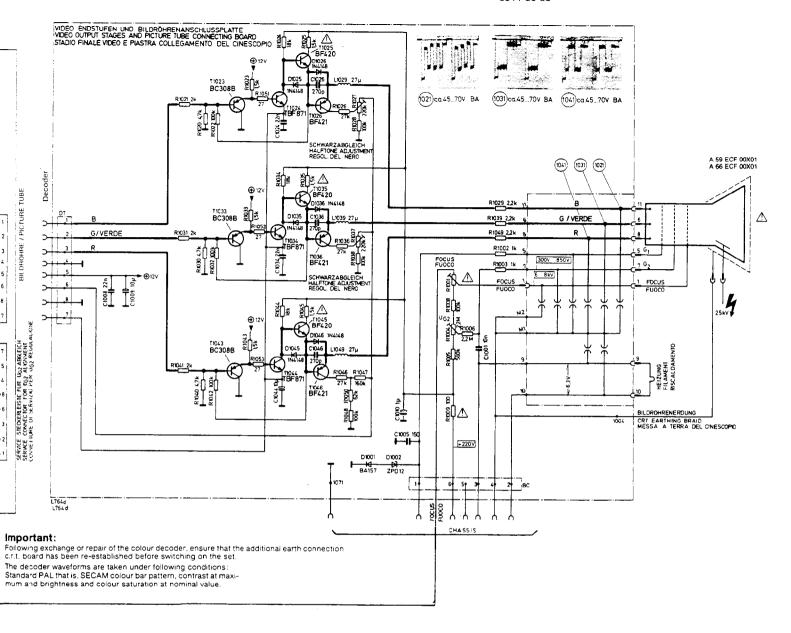


With the equipment switched to stand-by, the voltages of the switched-mode power supply and the horizontal output stage are below nominal value.

Following exc c.r.t. board hi The decoder Standard PAL mum and brig

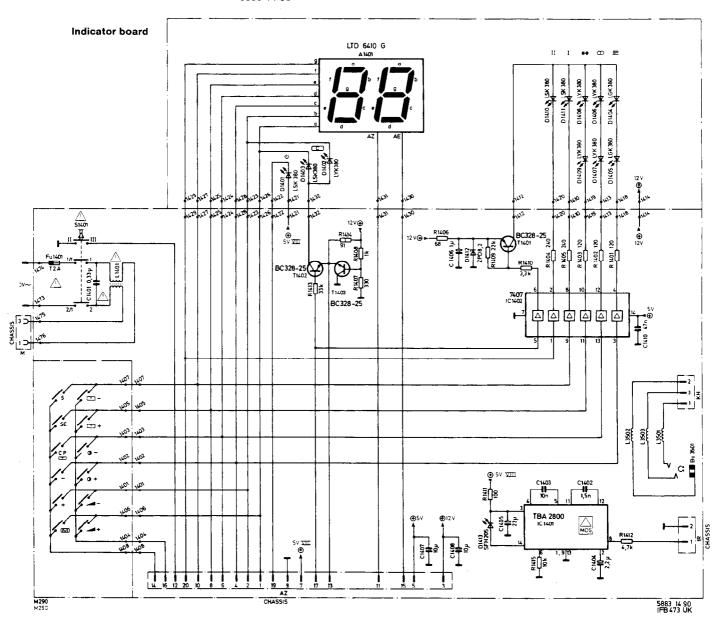


6911 39 55



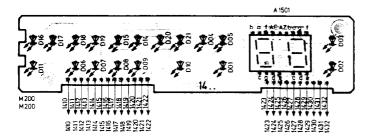
		PAL SECAM Decoder 6911 30 30/6911 30 29 UB = 12 V kontr./cont. PAL Decoder 6911 30 26/6911 30 28			
FHT-Oszillator Sub-carrier oscillator Oscillateur FHT Oscillatore FHT	arrier oscillator near stationary colours ateur FHT sur l'information de couleur presque stable		Farbtestbild / colour bar signal Segnale barre colore Kurzschl. Connect Court-circ. Corto circ.		
PAL-Dematrix PAL dematrix Dématrice PAL Dematrice PAL	L 884	verschwindende Jalousie im Feld "G–Y \leadsto 0" minimum Hanover bars in "G–Y \leadsto 0" sur jalousie disparaissante dans ie champ "G–Y \Longrightarrow 0" in modo da ottenere una sparizione delle striscie nel campo "G–Y \Longrightarrow 0"	FuBK-Testbild Test picture mire immagine di test		
	R 883	verschwindende Jalousie im Feld + V \pm U minimum Hanover bars in + V \pm U sur jalousie disparaissante dans le champ + V \pm U in modo da ottenere una sparizione delle striscie nel campo + V \pm U			
Glockenfliter Bell-jar fliter Filtre de cloche Filtro a campana (Decoder 6911 30 30) (Decoder 6911 30 29)	L 810	Daß die Amplitude beider Zeilen bei schwarz/weiß und während des Frequenz-Nulldurchganges gleich sind. That the amplitude of both lines is the same with black/white and during zero frequency passage. De sorte que les amplitudes des deux lignes soient identiques, en noir et blanc et durant le passage par zéro de la fréquence. Che l'amplitudine di ambedue le righe nel caso di bianco e nero e durante il passaggio della frequenza per lo zero sia uguale.	Oscil. — (#10) Zwei Zeilen überein- anderschreiben. Adjust to converge two consecutive lines. Ecrire 2 lignes I' une sur I'autre. Scrivere 2 righe una sovrapposta all'altra.	SECAM-Farbb, Colour bar sign, mire de couleur bane di colore	
SECAM-Discrim. (R-Y) (Decoder 6911 30 30) (Decoder 6911 30 29)	L 830	Schwarz- u. Weißpegel = deckungsgleich zu Austastpegel to where the black level and the white level coincide on the blanking level à l'egalisation du niveau noir et niveau blanc qu'il sort situé au niveau de suppression	Oscil 891>		
SECAM-Discrim. (B-Y) (Decoder 6911 30 30) (Decoder 6911 30 29)	L 835	in modo che il livello del nero e quello del bianco siano congruenti sui livello di cancellazione	Oscil 890	1	

5883 14 90



Program board

Base board



Indicator board, IFB 473/483

Hint for antenna connecting
Because of the ever increasing number of interference sources and their negative effe only shielded (75 ohm) antenna cables and antenna plugs (DIN 45325) should be use. possible interference suppression. Unshielded antenna cables, balanced-to-unbalant and antenna plugs often prove insufficient for interference-free reception.

Repair tips

- 1. With disconnected switching stage T 701 (base open), the power supply is capable of As no output voltages are generated in this condition, the IC 601 is without supply vin other words, the power supply is not synchronised.

 Rectangular pulses with approx. 14.6 kHz are measureable at Pin 14 (IC 701). However, the IC operates in so-called interrupt mode; i.e. the pulse voltage at Pin 1
- However, the IC operates in so-called interrupt mode, i.e. the poiso-called 200 ms.

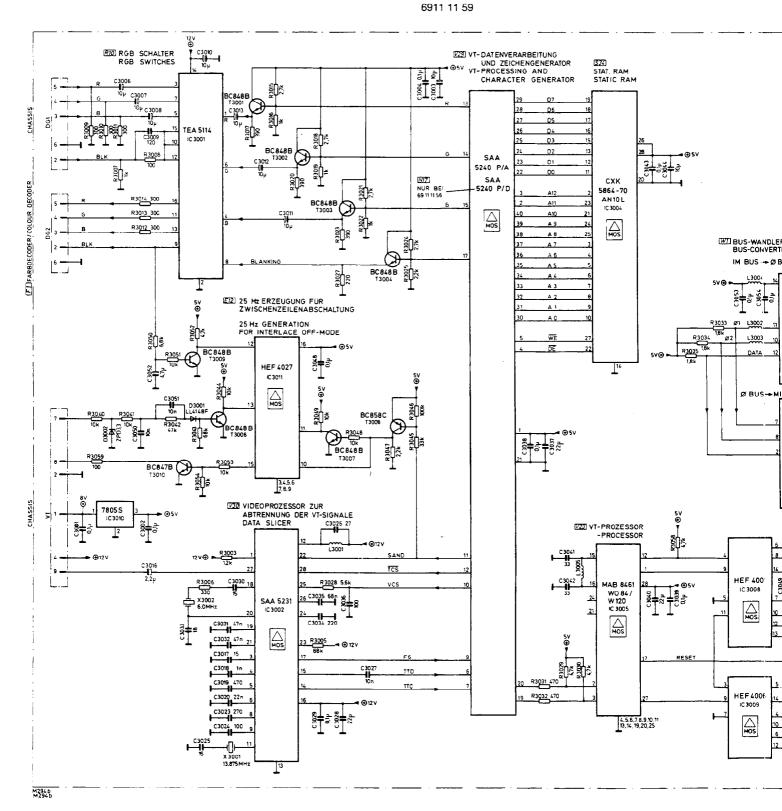
 N. B. If the switching stage is disconnected, the electrolytic capacitor C 658 mi re-connection (soldering).

 With disconnected horizontal output stage (e.g. terminal 4 Tr. 501 open) and a repla of D 733 (60 watt lamp), the power supply delivers approx. 110 V (Compact D). ca.

 3. If the T 701 (ON 4046) fails repeatedly, the following components should be replac even if these are OK according to the ohimmeter, and C 704.

 4. For servicing the set under operating conditions when the electronic fuse has at across C 700 (C 713). If the electronic fuse cuts out due to a momentary overl re-started by switching the mains switch off and then on again.

FLOF decoder





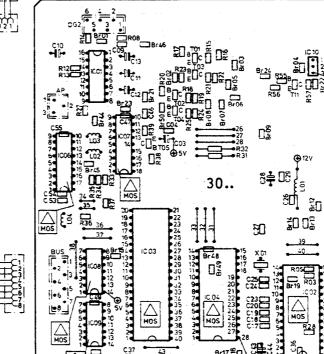
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B E T09

L05 C 05

MOS





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MOS

M2948



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Decoder			6911 11 5
IC 3001 IC 3002 IC 3003 IC 3004 IC 3005 IC 3006 IC 3007 IC 3008, 3011 IC 3009 IC 3010	TEA 5114 A SAA 5231 SAA 5240 CXK 5864 AP 10 L MAB 8461 P MEA 2050 SAA 1272 C HEF 4001 BP HEF 4006 L 7805 ACV	MOS MOS MOS MOS MOS MOS MOS	3766 11 5 3779 15 3 3779 15 4 3776 01 5 3777 51 1 3779 11 6 3771 51 0 3771 51 8 3768 17 8
T 30013004, 3006, 3007, 3009 T 3008, 3011 T 3010	BC 848 B BC 858 C BC 847 C	!	3614 53 2 3614 54 2 3614 53 1
D 3001 D 3002	LL 4148 F ZPD 3,3	į	3656 03 1 3653 17 4
L 3001 L 3002 L 30043006	Drossel / Choke / Bob Drossel / Choke / Bob Drossel / Choke / Bob	ina	4557 17 8 4557 16 6 4557 16 3
X 3001 X 3002	Quarz / Quartz / Quarz Quarz / Quartz / Quarz		4421 31 0 4421 31 8
IC-Fassung, 14 polig / IC Zoccolo del IC, 14 poli	Socket, 14 fold		4156 30 7
IC-Fassung, 16 polig / IC Zoccolo del IC, 16 poli	socket, 16 fold	İ	4156 30 7
IC-Fassung, 18 polig / IC Zoccolo del IC, 18 poli	socket, 18 fold	į	4156 30 7
IC-Fassung, 40 polig / IC Zoccolo del IC, 40 poli	Socket, 40 fold		4156 30 8
Kühlblech für IC 3001 / F Aletta di raffreddamento			6524 73 0
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